Avation Jevs MGRAW-HILL PUBLISHING COMPANY, INC. OCTOBER 2, 1944



propelled aircraft first Bell amounced test January is reported and first pictures of the planes are shown here. About first Bell Aircome tests think abeen seen ted under judicative people and below is the Gloucester, the British Jet Job. Details of the craft are still secret.

SWPA Price Policy Follows Pogue Group's General Plan

Others Likely to Follow AA on New Low Cargo Tariffs

Interest in proposed rate reductions believed to presage general move toward development of volume business through slashing of costs....Page 49

Model Feeder Airliner Data Compiled for Carriers

"Should I Use Constant Volume or Variable Volume Aircraft Pumps?"



VICKERS

CONSTANT VOLUME VARIABLE VOLUME

PISTON TYPE PUMPS This news requires an accumulater and antending

by returning oil directly to reserver. When the accamalator assuure dance to a arreferencined and directs the ad to charge the accumulated. This during take off and landing . . when operating ables new small demand charter Water ... Mrs coal





VICKEDS

PISTON TYPE PUMPS

find repaired by the industrie source. When the needed, the parton streke is anternancally learnimaintains full per-vary in the system with manimum desired previous judependent of varying volume used continuously during flight . . . m for proce-

Finkers Engineers will stuffe discuss with you the

THE AVIATION NEWS

Washington Observer

INTERNATIONAL PARLEY-List of delegreen to represent the United States at the international aviation conference in the U. S. next much is being compated with contenury lackeying for position. While names are not available, it is a safe accumption there will be Congressional representative Present place call for on representatives from industry has both auritors and manufacturers will be kent advoced on proceedings and probable will be asked to beld themselves in rendiness for con-

CANADIAN ALUMINUM IMPORTED-TVthere was an almoisture shortage is oursign book reser fold It is benigniar to be a probless. Abassisses Ct. of Cornels will delayer an estimated 97,000,000 posses of observers to the United States between new and the end of the year alone in navyment for II & leavest-

ments to build aluminum facilities in Canada when there were shortness. The electrons industry in the United States already has curinted production and arrangements are being work with Alterniture Co. of Carnels to defer indefinitely delivery of an additional 250,000,-666 normaly reader or advant

Committee shortly on the subject of operation phir will be filed some time during the Conthat the report will strongly recommend an open door policy with regard to steamilip lines develop into one of the hottest of the new

NO SERPLUS AIRCRAFT ACCIDENTS... Profiniture investigation by Washington officials of reports that surplus light tunings have been in accidents became of poor condition refutes those reports completely. There have been on uted to plane or engine failure.

SWPA PROBLEM--One of the short worklems now facing Sarahas War Property Ad-



AVIATION NEWS . Origher 2 1966



MANUFACTURING CO.

PROS. 27MST. - CLEVELAND IA O.

AVIATION NEWS

Teamber Show

Stantas Buren.... THE PHOTOS

AVIATION NEWS . October 2, 1944

came those appearehed to take jobs are heatant the agency after William L. Clayten leaves and (2) who will make up the three-man heard provided for in the disposal bill. Rifects to build up the organization have come to a vertual try Procurement, WPA, and other agencies are fading it deficult to recruit top-drawer officials

RECONVERSION CHIEF--The name of Horold B. Smith, director, it corresply at the terof the list of condidates for the ten reconverrien job on provided in the Gourse recovered as

bill. This isk, Director of the Office of December. ization and Readjustment, will be created when the President signs the George hill, Smith has the endorsement of Bernard M. Bernch, stands in well with the White House and is understand to be willing to secret. Other candidates incleale Fred M. Vinnae, director of the Office of Errengue Stabilization; L A Krug, nettag chairreas of WFB; OTA Adamistrator Charter Beerles and David M. Nelson

SPOT AUTHORIZATION-APPOUR WPH'S highly publicated but poer-performing "spot ties will increase tremendously within the seat few weeks if it appears Allsed forces on the German freetur may be kept engaged throughout the winter. Applications for mathorsty to start reconvergeo in a limited way under the spot authorization plan have been moved under the program would have been

Wasnington Observer 202 the calcular and if the Albed slaw-down looks much worse they undoubtedly will start applying under the sept program.

JOB FOR SATT-The man new considered ment Block to have the job of disposing of sixcraft and other surely easts absent is Wil-WPS. The overseas disputed job is not of the berrent and tourbest of the contower problems

CAP AND COAST GUARD-Many Civil Air tion styling the Court Guard stylhority to incorporate fivers and anatour radio operators in the welcome CAP members on a relective bases, but RADRO AGAIN-Army Air Forces can a re-

verse from a "T" formation and apparently have cartified radio precurement from the Simul Corns tast when it oppended as if signis-among has been making capital of the argument for single-agency procurement for oil armed pervices, thus further complicates buying of equipment, much of which in common to both Signal Ceros sed AAF. Sincle-advance recovery of courses literax but been the Army's structured papular apparent for a unified service, vot it

CONTROL RELAXATIONS-D is bettermy guard support for the christation of many wartime controls immeghately following the fall of floregamy Some, of course, will have to

dix Avester, Corp Personal Alexado Council of the Ages Chamber the week will present to strengt and pilet regulations even agender than these now prepared by the two agracies. Three Marine Corpo Corpury took off from North

Island near San Deepo the other day, their priors hoping to broak the west-read speed record set by a Marting recently. One handed near New York about 10 sussess behand the record, and the others were delayed in landing by fog . John Stuart, well known manifold service in writing additionals and reviewing seventalical books for the New York Tunes, in addition to his work on the news



Detroit has the un more in-Screen in possibilities of the detel, and in improving the liquid-cooled models Lockheed is making a more intensive study of jet for the duture than most everywhere 2: is also expected to turn up before long with at least one efficient lightwing for the personal succeent market.

Milyon entire division off-

ciniu are trying to sell Gen-

William Mars, part named private sales director of Consolidated Pulter, has resigned to join Box-

AVIATION NEWS . October 2, 1944

WIRE to TOKYO The Signal Corps is getting it through mile by tortuous mile COMMUNICATIONS

Must get through . . . in spite of cold, heat, burnidier, devoess, or the enemy, Communications is one of the deciding factors in quickly petting the most men and conjument where they can accomplish the greatest good,

RADIO . . . TELEPHONE . . . TELEGRAPH All have a vital role in the giant web of communications which

is the unseen hand guiding the destiny of our fighting men in every sphere of action. All of this communications confirment depends on ELECTRICAL INSULATING MATERIALS for its successful operation. CONTINENTAL-DIAMOND is making thousands

of invaluting parts for Military Communications Equipment. Parts fabricated from CD insulating materials engineered to remain stable from 70°F, below area to 160°F, above area.



A few of the many C.D insulation many being made for Way Equitment from C.D products DILICTO ... DILECTENE ... VULCOID ... DIAMOND HIRE ... MICASOND ... CRICKON. Complete technical data at available in bullets GE. Wires for a coder on your bessess between, BISTECT CHICES Now York - Coveland - Clouge - Sportenburg, S. C. Wast Court Ray, Marwood Nd., Sci. Process - Sole: Officer a proposal office

Monafocturers of Londocted Plostics since 1911-NEWARE 4 . DELAWAL

erament early in the way

ANOTHER NAZI AIR WEAPON FIZZUES Just received in this country is this shetch prepared by an artist on

AVIATION NEWS . October 2, 1864

Price Policy of SWPA Follows

General Plan of Pogue Group Only major difference in establishing of values on surplus sircrift is procedure set up for determining prices of transport planes, SWPA following depreciation method. By WILLIAM G. KEY

The surrraft price policy estab- formula, SWPA breaks down behad by the Service Was Doontransport streraft into two szeens. In Group 1 are nulti-engined elemen of 17,666 persons armen by CAB Chairman L. Weich Parus. cipde Lodesters and layer shins In Group I are single and resituengined severalt of less than 17.-The Harvard School of Business pounds grees weight, primarily ubve transport sees One model is each group "curbased on the umbable economic

Deates rates on nimitar cours-Frollows Alternative Method the Harvard report and the forfor prices to be paid by aptimes Industry sources say the formale used by SWPA well many a

planes racce describle when they The policy of SWPA is provithe period of short supply. The Pages Subcommittee opposed such a policy, sayour a food notice should remain so firm as possible furing the disposal period The SWPA policy statement searches that applicants for transports be warned of the provisional charge. the people of 'Yourseard revision in future proces."

b Breekdown-In working out the

of Group 1 and the cost of manutaken sa a whole b

lested. (The C-47, for example,

factore is generally estimated by my the first my months of 1844 DOther Pacters-Type prices of

other models in the same group will take into appoint differences have model during that perced This SWPA says will achieve a Then, the individual prices of

tion of type price Apprendicate will not be allowed where planes average manufacturing cost of the see to be used for cargo only, the have readed during the first six peace policy specifying that "when months of 1944 will be established cost of conversion is alleged type The SWPA polary, however, gen, on the type price of the place se- perce will be that established has



of conversion by the manufacturer

Accests Recommendations—The price policy accepts the Porue and and conversion costs credited in lease or installment purchase. Payments would be second over a pe-

ried up to five years. The Popue report estimated the carriousled modified and referbashed at approximately \$50,000. that would sound \$60,000 when a "reascenble estimate" of preshaul residence and references was courses halves the SWDA formed rendertion of civilian planes he ated at only 90 percent paylend be-

Krug Names Small For Conversion Job

Representative of tensoids Wee Production Roard, looking toward handling of recurversian problems. has been completed by acting chairman J. A. Krug with appointment of John D. Swall as executive officer in the Office of the

Kruz noted that he previously had named Arthur H. Bunker as shad rained Arthur II. Dunker to in streamlising the WPB ergansation to deal with reconversion. Frage-Man Teams-It was ex-Office of the Chairman three too officials who, with the charmen. will work as a tours in bandling various problems with WPB vicechairmen. The chief of staff will develop and coordinate various nalicus unfur Krue's Structure

the converted plane." This would. in effect, equalize the use origes sharpe of WPB operating activiboth of these men and work with other WTO officials

> operations, succeeding Wade T haldress. Bosselvereters has been with WPB stree November, 1842. Controlled Materials Plan Devision in December of that year and became director of the Production Controls Sureou in April of last

Details of SWPA Pricing Policy

the Sarabas War Property Adexceptration breaks down classes Surplus Aircraft Advisory Subcommittee into enterories, the reneral outline of that report is fol-Here are the details of the price

redient. ACTes: A-Turfinal sirerati are broken down into (Green 1) some and other tactical multipry relaugue and (Group 2) haur and types will be priced under Class B. formulas Those sald abroad will move at prices established by nov-

> SW/PA Shuffle The new surplus property bill is not expected to affect posents other than in mines details, although it is possible that the new three-man horse to be appeinted under the W. L. Clarton, Serples Wat Property Administrator, is sebeculed to leave SWPA that of the top officials of the pres-Mr Clayton. preference in sales of parolas

vencers, regardpolition, rural

butions not operated for profit

States will be sold at union not lower than the estimated sales h Chur B - See occommunity

h Clare C--Personal-tone strength

aircraft. Group 3 consists of miscellaneous types, such as gladers colonory Blanca in Class C will the United States offered for sale outside the continental United States may be sold at prices soproximating those being received

attempt in commercials condition

he United States may be offered for environtative highling or sold at prices approximating those reperced in the Daried States. Groun 2 sureraft may be offered for competitive badding or at uniform to reflect the relative condition of the introduct planes. They will not be sold at less than perse disposal susences. They will not be

component parts, "whenever pracance with normal trade practices and as a coneral rule will be fintribuied through normal trade

Clear E-Thus in the great recoryeer unto which virtually all Class A and excess supplies in other cluster will be changeled. All elenes and materials in this class, considered to have little or no commercial value, can be leased lent, documed or sold at nominal erized by Congress. All agreeaft some commercial value, may be stitutions at nominal bantals, or sold for gon-aviation gurposes or under warranties that the property

U. S. Pushes Plans For Air Arraches

civil posts at structely exchanges By SCOTT HERSHEY

is progressing, officials contend.

our embassies and legations as epon as fearible Frommer-Present plans call for reexpectal attaches at London. Mudrid, Cairo, Rio de Janetro, Mexico City and Ottows and pos-

Formal appointment of Livingsion Setterthweste to London (Assurass News, Aug 7) has been made, and that of A. Onter Pierret to Madrid is expected depotly > Specialists — The specialized it difficult, in succe cases, to find errights man error many of those with the end of hostilities in Fig.

It is said at the State Departand greingmary reports. There are whether all the posts should be filled immediately or to portpope ticularly suited for the postfloor F Candidates Considered Secure

persons are under counterston seen as they can be cleared thenick veryour experiment than-In addition to siding aggradimanufacturers and producers of

Ict Propulsion Speeds Ahead Marked returns has been versely in the Recognic Shirter

made in sel-propelled arresalt since lest Jenuary, when a young such court, with Bell Average

until we have sufficient elanes. There was no hint so to when At the same time, the War De

subscription sources have tada-Succeeding Perrot in Washing-

ton is Robert J. Saldwin, who has and conventions that will arise been engineering and research diwith increasing frequency in re-Pierrot to Madrid

A Geden Pierrot, who has been stinght at Madrid



over of all U. S. planes delivered hatey in Sin de Janeiro. Bouder related opulament in locating may ruses and Franch Reform he kets for their products, the st- sumed McDonnell, he was with

Lee Heads Menasco Electron lost week of Jehn C Lee as president of Message a Lockbood Aircraft subsidiary,

Marketing research studies are field, passibly cooperating with Lee, who as head of the West Court public relations firm of Lee and Losh has rest operated rahealth Robert R. Miller remotes

Menagon has expellent reaches. and facilities, as a former siroraft \$1,500,000. Berklor to estimated at since see, including landage gear shock strute for the P-51

Airborne Troops Use New Waco Glider Morloss of Fairchild careo plans also shown to military observers

Demonstration subjects the use slider in Army maneuvers for the first time, approximately \$400 Airborne Command troops partiespated in a spectacular combat

Four of the bet CG-13-A rilders capable of carrying five-ton paytack, carrying fully leaded peops ment and landing in a nest pateliders, are excurred with double posewhool and are fitted with a Has Automotic Pilat. The her rister is also fitted with an autoparcels by parachule or freefall. standard C-97 transport although Study New Office better performance is univested. To Replace APB

Francisid C-32 Markets-Newschild C-82, which recently first near Halteriore. The C-62 has a



WRIGHT SWORN IN AS CIVIL AERONAUTICS HEAD:

magery in Theodore P. Wright or Carl Association Administrator in the charrents: Hariles Brench, Jaik Lee, and Gouald Boan, all members of



aureart. The respition and food supplies were dreeped in cargo

Processe for unit to be over WPB Assendt Division is re-

ported being drafted for presentation to Kruz, probably this Projected changes in the ordersentional set-up of the War Produc-104 feet wingsom and the fune- use Board under seting director J. A. Kruz probably will affect ag-The demonstration was married craft in plans to fill the gap retime Charles E. Wilson left WPH chute battalien from the air, in a him this week to set up an Office

My by one of WPR's you share-

sould be the WPS war, charmen Administration If this room

As now planted, the new WPS

New Assert Chale-When the



COLLINS AUTOTUNE The Key to Precision Control

THE Autotions was concerned and entitlement by Collen many years ago. It was the result of a version dissatisfaction with slaw, banksund methods of tuning radio equipment and a persustent effort to improve them.

What is it? How does it work? The Collins Autoture head shown above is a and stopping it precisely at any one of several

lated turane shaft to new settants chosen in

The Collins Autotime system counts of a ele electric motor, each quickly and significanoutly repositioning a separate and non-interreadequace by the operator. At the totach of a butreceiver is thus completely and exactly tuned to

controlled, was adopted by American Airlines. Brazilli Acrasson, Tropped Radas Telesmark Co.

and others long before the war, Reliability has The College transporter design and the Autotupe have proved so advantageous to the Armed other large commence, in addition to Collins, to

Rayeds, Iowa



to take over functions of the time, that aircraft production is generally substreed, that schedules and that the industry had well development of the shifter to meet the It is understood, however, that Krug and other WPB top officials

feel that some agency should be set | 5-20,000 Units "Only a Bestspine" up to take over APB faretises. tee, although some officials contend to set in such cases. It is berely possible that authorization for materials may be resembed if IAC's

activities are replaced by the pre-ACCA Brochure Aske Small Port Program

20-page promotional booklet urges communities to 'Put Your Town on the Air Man."

A Princete Facilities Liberty - D. ve. ernerum will no bernand the more varged a long step last week when merce released a booklet triled owner of surjoble land, located The 20-page illustrated browas 20,000, was exponented by Je-

Mcrark Projects - Some state existing commission strendy are enganisms airpork projects with their exercipalities, lown is reperied to have set up at least 11 properts. Other states had more A major obstacle is the tendency on the part of local authorities to

state maney for equatruction of portion of the number, or road-Both the Council, and the Civil Mr. Gradier during big poescontervace estimated there would he \$2,000 persons) employees in the enoughton the Endered and bill) New York City sees within five cars There are 18,000 commissioing fields Each surperk, in Mr. to 35 persons, manay of them "terred air force utlots, mechanics two 2,000-feet runways 300 feet wade can be built for as little as \$25,006. Spokesmen far the Cour-

-They point out, too, that the imperhaps 20,000 upits, plus "wir barters" and "sireless," is only a

CAA Port Program Ready in Two Weeks Steen for hillion dollar enrices other state agreeues, leaving 30 with commissions for organizawide chain of sirfields, recovered tions known to some other more) by House, being completed for

shead of six months' schedule. believe dellar airwest building neawithin ten days to two weeks, in respect to House Resolution No vapor of the six months deadline nervent immediate consideration of

side flight strp requirement.

financed apparks may have not-

ural sod marines, mraple service

A Transported Parts - It is understood that, eithersth the House resterm numbers. It man without away, and later communities will contain previsions for territorial

Some industries, as well as ori-The program as previously reneeded would call for \$400 size vate individuals, probably will well along with plans to provide state of Munniels, which now has funds with marricipal, county and not the country will hardle a large mostly of smaller types



THE ADDRESS CONTACT OF BUILDING TO STATE OF STREET

The challenge of possyur problems is trigralizate to those the method which permitted colman mass from straken earlies to shoot directly out shough short takes. The method was dangerous to priors because of carbon mercor ide. Numbe fiving was becarding because vision was obscured so be too hot to bandle is any other was until Selar's suc-

Solar has led this beauth of the similar industry for four rates of existing engineers. But bolar is going pioneering seein ... recognize to lead up the drawn and recognizence of assaufolds for suppleses not per conceived . . . to develop other products for sixplane durigns of somorow.

Solar's three plants are operating at full expects on was with sixtnik and engine manufacturers about proposed eminorary for normal plates. Address "Management".



AVIATION NEWS . Ortsber 2, 1986

ENGINEERING NEWS REVIEW

Gas Turbine Plant May Bring Radical Changes in Plane Design Compactness, efficiency, lightweight and convenient contours

of motor offer variety of sircraft applications. The apparent efficiencies of one by dissigning. In the former, the turbine plants in combination with turbine's sale function is to drive their compectness and light-weight. the compressor and it should also offer a variety of aircraft applicaeration plant can supply a number of tertanes, each drawns propelpenerator located, say in the fuselass, can be duried to compact turbenes "beened" on the sense. The convenient confours of the tarvelopment of the power plants, popularably reductor drag Sareable valerag would permit considerable firstbibly in the system at a whole, providing the suppliert kind of regulation for optimum

Open thermal cycle turbane plants (drawn by combustion guaunble set effect is already being the use of suitably designed exprotraberances such as air sceeps. FAir Congressor Drive - Most the thrust nonless given up to the

set etadines and those designed for

propeller shaft drive are inherent.

lerns and costs. The was ducts also

sorb the least possible energy from bine's main function is to deliver soc. In other words, the turbine is auxiliary to the compressor in the the way to "constant efferency" prespective of altitude. For example, a "four-engine" amounts religion result have two turbine-monvides reest efficient remediates. In less loss thrust efficiency, the eather reduce maintenance prob-

cating engine might possibly be the key to such a do-am combination. In last week's Aveation News, energy was contained in the exa con turbing to drive the mir corn- so that the combustion pases could pressor. Some of the energy in the the actioned for eather supplying energy to the turbine for propelher shaft drive, or, bypassing the thrust energy. The engine-com-



EXECUTIVE TO ACCA: John K. Doyle, whose eppointment ANIATION News, Sept. 25. Mr. Bushe were the Churcher ofter unde experience in the assortion Arrest Corn, and chairmen of

design, rather than have the deblades could be feethered to reagn himited to power plant dicdate first and the jet empres cultates. This will recen a writible

and so entirely radged and precommy aventon one is in the MCA Net Up Sharply Med-Continent Airlines' net earnings for the first seven morths of 1864 tetaled \$723.666 after have

J. W. Milley, negurient, and the equipment utilization, heavy wertime traffic, and return of two service. Mrd-Continent's possenpercent in July, 1944, compared) July Net Galas-Not profits for July, 1944, were \$39,665, nearly truple the \$39,547 carned in July, will be in service on Mid-Con-

AVIATION NEWS . October 2, 1944



Phillips AVIATION GASOLINE

A major supplier of 100 octane gasoline to the Army, Kavy, and United Nations air forces.



FIRST CLOSE-UP OF B-29'S TAIL ARMAMENT

furture of spare parts. Completion

of the contracts resulted in some

reduction in face, mostly wood-

now being filled, recluding nose assemblus for the Carton-Wright Directors of Globe recently

dividend deciared at the culmina-

Here for the first time are shown close-ups of the ominous-looking 26 was named which hards shells fire-power packed by Boung's Superluttress in the more than three-journts of an mon in derector. The inil narror. Two 54-caliber machine gura flook the guesser is in the compariment beneath the rudder.

Globe Aircraft Maps AVIATION CALENDAR Post-War Expansion Post-war plans at Globe Air-Inford, Chooses

6.4-(Repressue Association, first shared)
merigagi Watched Association Social News ing shape and the company plans the of SAN Ration Avenue Explorers and Judgette Freing Lee Angle. delicted for Transport Strains Sicher Sens, Washington 39 (843)—Strainsonton Aviativa Caulter-man, America, Von self additional resupposed streats es America, Ven 15-34-Nething Association of Daylo ration Officials, Associal Montage Office compeny's administrative, sales team-outlined State of Demotic Aria-for Pleaning Oblahom Car Schoolali Reports Air Cargo Marting, The Second Annual Resting Assatus Startbeam and Management Assatus ing Julyana Road, 28, Gods, 20. PTrainer Order Campleted - The company has operated 600 twinenemed AT-10 framers for the --Army, a ware re-week job on other types of trainers and more. Plane Refrigerator

A compact, custom-built refrigerator for atrplaces has been acra and net wright to 106 novads. tion of 18 months of operation by All parts of the Autumn radial the Fort Worth plant under war compressor are made of abstaurum amounting to approximately \$35,- internal parts. The refractional

Army Accepts XR-1 Platt-LePage 'Copter peceived last week from AAR represent has accepted the XR-I ered to it on Jone 20. The XR-1

The Army strengy has so-called fact, a main rotor and a smaller compensating rotor on the tail. The pensating tast rotor but carries twin main roters located on two pagy is new producter additional and is prepared to no rate pushfity

and the Army's requirements are

All five DZUS-equipped



Year ofter year the Drus select elet features knowing mean with the eyer many stocks as also of the existing industry, built a reconsticutor or the roost dependable fastener. Thus, teday the five top U.S. fighters are all Days-equipped! Speed in built into every lock of these elegen and lete the Drop England to Ouls * quarter turn-click-this dependable feetover is open or closed. No protruding parts to interfere or offer resistance. Every immedian station is multily excessible. On the mound or on comier deck this service of time combired with stress dependable featening is a





So American Credit Problem for Industry

Friedrild official finds Lucius enon-berrelbend policy.

Camera & Instrument Co. who has gent returned from a groutharrange Unried States magnifec-

barrelbead" from South Amen-

official representatives and business have the money to pay and ex-

He believes there has been some phasing that a communitable were Plastwines trainers Sanders says that if the United up to sax months or a year if neces- Mexico Gers Planes

within the most few works with the delivery of 100 planes from the

morro "and countiers at a refact. United States and 166 from Cun- ment for would be encodourin at

Participants - They are: Ancio CORSAIR IN BRITISH BATTLE DRESS:

A familiar worplane, the Vought Caracit, is seen here in infimiliar garb, that of the Royal Newy This fighter plene is now being produced for the Royal Navy by Goodpear Arresaft and is about here on the



PLANE STOCKS IDAHO LAKE WITH TROUT:

fuse to extend him credit." United States were not specified and U. S. sources declared com-

ment. Canadian planes, ferraed the any other one than toward Lockheed Negotiates

175 Million V Loan a Recolution V crosty of \$125 000 -

C A Berker, Jr., vice-occusions and iresparer, and the committion against his integraty if we re- add. Types numbered from the one percent with a 90 percent

> California National Benk, San. via Bank Los Angulasi Cantrol Hanever Benk and Trust Co., New National Bank of Baston: Grand The New York Trust Co . Philadelphys National Bank of Phyladelphie: Security-First National Touck

of Los Angeles and the Heave-

AVIATION NEWS . October 2, 1944



forests, ocross mountains, rushing torrents and treacherous muskes . . . all consucred by men and his machines . . . machines that owe, in great measure, their very existence to the elementary principle of the inclined plane. Used in against Edvet it enabled the engineers of the Pharachs to move into position by sheer human effort the massive blocks of stone that formed the Paramids. This same principle, upon development became the worm gear - that efficient instrument of power transmission - used in zearly every field of power application . . . without which our machine built civilization might well colleges.

EVEN on the principle of the ladined place has influenced daily living in the widespread use of the worm gear so also has Brooching, developed through successive phoses from a crusic benissian. Today, thousands of parts are made quicker, cheaper and better by modern applications of the branching principle. In knowled with the trends of the post, even greater developments are in store for the world of tomorrow.



... slever hailders breached the hubs of the famed covered wagant



AVIATION NEWS . October 2, 1944



NEW CORNAID SPEEDS ATRIAL DESCRIPTION PARKY. An expressed method of taking nevial photographs frees a Cornels Saktor

Plane Noice Seen would begoen with processing fre-

As Port Problem

In discussion the relation be-

because of objections to plane

cating the way in which various and propellers A chellenge to aircraft magazinepredicted that with retellment

Allison Cuts Hours land value. Burden and property Alliana Division of General Mashelders were usually reposed to

Allien, manufacturers of basedcooled arresult empres, among other products, reports that daring over by the British Air Correspton metropoliten district where

than to release persennel which

Tax-Free Period For Inventors Asked

A three-year tax-free uncentive

Firs Problem-Kucher describes his plan as a research engineers bu a Marine soundron in the Pacific new permits prints to study plattsgraphic records of their migrious within an hour after lending. Shown

> He believes his proposal, if it can be worked out, will provide will far exceed the temporary been

Convair Retools Ro-tooking of the Nashville ntest of Consultated Voltee for production of P-14 Lophterns

vaneing from Bosins's 25-29 to Lookheed's P-36 have been modisee in July, 1940, after the fall of France. The plane, built both to

by 1919, despite the turnoil of despirituation and reconverses. which gave the world the are-cooled radial curins - the corine which Forces index Now problems of re-adjustment again loom about But in in 1919, Which stands made, with we've now mere open of 40 acres special antiferrory four at





AVIATION NEWS . October 2, 1944

"Braniff Airways Estimates Each Pound Saved Worth \$108 in 1943"



ROOTS NIETS SAVE UP TO 40 URS PER PLANE

Annie Abereit Net Corporation, General Offices, New Conness, Com., Supr. 1

. Although LIGHTER, these all-SAFER than other ruts · New need on every type of mil-

· Will be stupied on commercial . "Outlot the slees."

· Approved by all government avi-

after approprie

BOOTS SELF-LOCKING NUTS

all-matal, self-tecking out is 60%

BOOTS STILL ANCHOR MUT

Apparenties in the Self or Chings or Outcome or Independent or Assess Clay or Outcome or Assessed or Management of the Company of the Company

PRIVATE FLYING

Urge Lightplane Manufacturers To Ask Permits for Civil Output Demand for small craft will remain brisk even after best sur-

nips supply is sold. Washington efficiely believe The War Production Board becryshan production as seen as pos-Speed of surplus sales in this enterpry and a survey of future analied for permission under Ldarting where it appears advis-

h Door Action-WPS officials and

for light plane makers. But Management Included - Spring

Two reasons impel WISS to sale evident. The second is that litting

The nurshus hightplane sucture

A More than 5 889 of the 2 688

CAA to Ration 73-80 Ocrane Gas

saled the government Administration will take Distander service readire retions may be used well! New 1 surplus and readily unable by ciwitness will total loss than 2,000 the same enegory will be availshie for some months to come and which has been urged by many then many of those available may lation inspectors, who regularly under a plan of allotments to cornumber of Army trainers in the distributors on a bases of emergical uses. These are restricted to print traumer, transportation of persons entinded, WPB refrester it does not believe that manufacturers sales orders that will be quickly probabil use for "burastorwers subtreems, pleasure flights and Under new setup, CAA replaces WPErs Office of Civilian Require-

ments in task of making clauses



ORANGERURG CLAIMS DRIVATE DEANT LEAD

some places will be built that aren't vitally needed

by Benerity Housend's Hautcharms proposontains. It recentles a \$5-percent Army light truners released to

High School Flying Urged by Educators

Four hours of flight in a twocontrol plane has been recon-FColorado Proposal - Colorado

Dinam plans an extremy program of swiation industrial arts. County, Mich., officials, if the army California recommenda carrying former Wayne County field, at the the aviation studies man preser end of the war It is assumed that

abled and urblished, emphasizes DEspunden Plans - Leitor C DOMES Plans-Bender nerrene Seath, Wayne County Road Comon the fight experience, all alx from its measure 1,500 acres to 9.chided in all study courses at all 200 scree by condemning and Promiter sylving courses in sensor both whools and colleges crete regress, allowing use of the

systems must assume complete respansability for making automes of Detroit city half. Wayne County education and integral part of and the federal government have shared equally is expenditure of sopresimalely \$5,000,000 on the tige Service of CAA, which hear-Direction Indicator pengrama. The service will make A new direct reading mameric writing to CAA Aventon Edgestion Service, Belorence A-6, Du-

partment of Commerce Suddens.

CADET SCHAFFER WINS HONOR AWARD

At Lakeland, Pla., Army Arreston Capet Robert J. Schaefer, con of J. ment masker Also shows are Albert I Lodovck, somer of Lodovck School of Arrenautre, Lakeland, and May C. E. Flakerty, communicacy

Detroit May Expand The aringsth possiber rotates in Nearby Air Base Reception of Receptor, Mach. custy, is projected by Wayne

Glendale Port Plans

Port-war plans for Good Con-Academy, as disclosed by Mar closed plans to increase the field C. C. Moscley, president, contemmarrhagest additional land. The and commercial figure approach addition would make anothly con- and record of curious and approach

direction indicator company par- is an engine test stand, described

available one in constity. Discusses upon recent. AVIATION NEWS . October 2, 1944

Simmonds NOW AMERICAN LICENSES Arocouries &

The Simmonds-Dowly

Hydraulic LIVE-LINE Pump Makes Controlled Energy Available Instantly

Simmonds is now the permanent representative and licenses in the U. S. A. of Down Ecolometr, Ltd., of England, one of the world's leading developers of hadronic contrasers. The Simpands Doney Live Line Paper in the arknowledged

both siccraft and industrial. So-called because it maintains constant pressure in the budrastic outron, the Line Line Peren persides (1) instantimous response, (2) stability of pressure, and (5) flexible steed control . . . plus simplification of the bridgeslic restem. It is equally used for retracting landing year, across the cutting roof of a lathe, or controlling a halidoust. American made Semmonds-Dovey Live-Line Pumps and

Simmeds Equipment Files With Energy Type of Allied Absorb dicatedas . Success and Cips of

Armed Officer Gertina + Workharten + Helloward + Montreel Menadostativa Month Mary York 1 Various 1 California

sped by Assetight Corp. of any "engines of the highest burse-

Week-End Air Tour Post-War Forecast

Barers, test prior, in a new Horksday Comet plane, Flying out of Compton, Calif. sirport at 8 30 covering 1,507 nor reales in 17 b Flight Bads on Barrys reported lan of resolute, maintained an average speed of 113 mob. at 2,000 Randolph, of West Vergrass, J. ross, and carried 50 pounds of burning. The Cornet previously Aeronautical Transact Samets pictured in the News, is powered provident; Roscoe Turner, Indianwith a 110 hp. Franklin carine. it \$3,000 when out into volume non-Corp., Burbank, Calif. Ropers said the true meluded a variety of fiving conditions, va-

N. M., and climbing to above 10 .-

Plan Macon Program Manor's George Arr Cliebe en-

rathering in the same city after Macon olizar morram, whose speakers include. Bop. Jerman number. Logeril H Saveson. charman, Georgia Agreeastics

Advisory Board, and president

Southeastern Air Service; W.

shading one hour, 15 minutes of Peopy McDonnid director. Tre-

Accordi Corp., Harvey Perkins, Barron 2 director, Ger. Ella Ara-

Airline Courses Offered Women

Sevenired training agreement including practical office expericaco, classroom instruction and Mirline Conpersie-Conperting preparentations, supervisors, its ply officers Facilities of the str-

In addition, the university is

offerent other autime courses to



CUR SPOTTERS FLY FROM IST

pleases curse in the Siction recurse, with subsequent

LST, for a test on Lake Streets. The prior, who had never taken off from a corner before, "took off like a rithms developed to serve as exerter anothers, as shown AVIATION NEWS . October 2, 1946



EVAN PERSONALION ENGINEERING DEVELOPMENT NO. 145

WARPLANE WING...PERFECTLY...NOISELESSLY Plane production goes at a first clip when rivers are put in perfect THE PROBLEM I The copy when small size of the pro-tee plant. Serve in the effectively stronger should be small. Children's a world size age were the first of coming some of the people and two serves had been

12 at a time. That kind of speedy rivering, replacing seeing individual Is spends warning production and means lower cours to the surpayer. Ryan was foremost in the spolication of meltiple bydrastic givering to sircealt work. These new methods aren't past 'something that bappened'. Their development at Ryan is the result of far-tighted planning of methods to combet the shortage of labor, and get more

This wholesale rivering technique is new and unique in the industry Cooperation is being extended to other sirplane manufacturers in riving them full perhalped information on the advanced "game closepring main rai occinion information on the advisced "gaing rivel-ing" methods developed by Ryan—methods which are symbolic of this pionest company's leadership in aircraft design and engagering

for production ... in warting and in seasoning

THE ROLUTION STOT PROSERVE SECTIONAL SECTION SECTION produced incompany appoints that make a revising all the convenience of the convenience o THE REAL PROPERTY OF ASSESSED ASSESSED IN LOSS OF parts included and adjust are dissinations. And an application of the plants of application, benefit care for applications, and the part of a problem as the part of the part of a problem as the part of the part

BELT ON BYAN TO BUILD WILL



Byen Astronoutical Company, Los Biogo-Manker, Astroli Mar Production Council, Inc.

DESIGNEES AND EXHIBITE OF COMESTANT TIPE AMPLIANCE AND EXHAUST MARIFOLD SYSTEMS AVIATION NEWS . Ortober 5 1944

Manufacturing Costs Of Planes Analyzed

Paper offered at SAE meeting in Los Arecko discusso system of desermining lightplane production expenses.

tooling and manufacturing phases

The plan proughes previous

underect factors that make up the

selland outco of a typical light har-

proportional to direct costs; each

with detailed data and storistic

In their conclusion, Tuesmus and

Arrefare design, stress and weight analyses, plant expansion, war. But there has been little Even before the war, not rough wan

this gap is offered by A. G. Tsongas, chief engineer, and F. S. Matoo Accoratt, in a paper tailed Cost Planaine the Post-War Strail out Engreenne and Production two engineers propose that the movalacturer organize a special-

selection by orderly and detailed methods, the most coverseal acaptar precent prepased designa-

a dellar saved in direct port means Boyers' Preference A social of 1875 year on to Belrating engineers, is on the basic personal plane barnes persendane Boat stischments.

contains \$1,500 to \$1 and reale created range, favor tri-

New Field Dedicated A new \$1,010,000 surfield was dedicated at Deer Park, Wash D. J. Muckie, sharf of arrests somprevious branch of the 7th perional Consessor officials comment-CAA office at Sentile, projected each \$.100 feet long and 150 feet

28 Personal Plane Companies Listed

A group of 25 personal sixtents usues who either plan to build them or think they much . Repectations of some of these companies legladed. More may be heard from The first 12 are receivers of

Amongo Alburalli Corp., Mandalesea Amones Alverth Colly, Modelstein, Olde Booting Alegerth Co. Senith, Winth, Whillin, Eds. Cesma Alectric Co. Workin Kim, Cesma Alectric College, Workin Kim, Elisame Day, Wayks, Mich. Patchild Rayword Day, Panchild Es-gible & Alversin Corp., Magnetovo Md. General Allorett Corp., 43-00 Estenson Host, Asterio, L. T. M. Y. Drikett Assertall Corp., Urger Darky.

Corporat Assert Corp. Burbook Piper Amerali Corp., Lock Haven, Pt. Absorb Corp. Weblie Ess Commonwealth Assorati, Inc., Ranner The largest portion of inderect O & A Aircraft, Inc. William Grove costs, the surbers say, are directly

Disks Awgraft Corp., Fort Worth. Describes Assendt & Enguerries Corp. 543 Wanter Dref. Lee Am-phie, Onlik Kilder Corpo. Ide., Finatorings Div. tention Pa Michael Alerratt Corp. St. Louis Me I. Martin Co. Baltimers Md. Styred Albundt Co., Twentant Mich. Northwedert. Acressoriest Corp. Missespatis Mins. Depublic Aviation Corp., Farming-field. L., N. V. s. L. I. N T. Co. Sen Inches Chilf Sparter Aircraft Co., Tales, Okio.

Arralises - Tour Metala with a large petroleum company,

ing can still be thrown away by . The Bareau of Mines of the Do-

an we fly and keep our feet on the ground? operators, manefacturers, and others introved in fixing

SURE, there's constitue impiring these fring-a converting that His thought slot beyond earthbound trudyion As pioneers in the design and production of light restant of whithful thinking and sometimes pure fantage. Due we at Texturerale, all of equal-papers, engineers. production men, and entragement-ballane we must know We segrets that all of an-otion, instructors, fixed been

the farare of the light place industry.

AVIATION NEWS - Ortober 2 1964

This does not ment that Teripocraft is straday will. but rather that new Taylorensk innovations and improve-Our obligation, as we see it, is to perfect se closely as mostble, the safe, tree fore-our plans that will measure up to tomorrow's progressous, without less and farfers

Topioscosis is also re-comblishing and calanging its sessional representation and service facilities. Write as



World's Language Buddiers of Side-Tim-Side Acade TAYLORGRAFT ATTATION CORPORATION . ALLIANCE, OR

.... Five miles up / HEAT, LIGHT, AND POWER



The General Shorter die record contern above lates the voltage and distributes the current to every part of the plant. From powerful, and switches, this sixtraft power system is designed and engineered so an integrated whole to G-E standards. It is one of several types of supply, speed control, systems tic prior, synctron-As shine increase in complexity, the need for

automatic operation becomes more present-

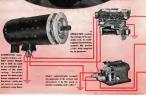
detire. The resources of General Electric see.

devoted to the manufacture of such suppression

systems Soutens that appointfully married cond flace and intercooler shutters, synchronise the operation of two or more parts of the ship. formerly performed by the shin's core.

The decibility exhability and late weeks of support now make it General Electric when they make it automatic Then, too, sireraft morefactures will find that man-hours can be saved by one experienced manufacturer. For technical information regarding G-E sprendt systems, and such systems, write to the reserve G.E office. General Electric Compens, Schenacteds S. N. Y.

Typical G-E components of the D-C POWER SYSTEM





GENERAL & ELECTRIC

FOR AIRCRAFT

THE AIR WAR

Expanding Jap Aircraft Industry Preparing for Defensive War

Nipponese shift production urbedules to place emphasis on new case of fighter planes rather than bombers in preparation for new avalanche from AAF and Naval Air compaign.

And as Germany saw the hands repressing evidence that defento switch free besiders to une narrow to cook a consessentle pogred fighters in the winter of punch, with a lot of good steff 1942-41, so the Japanese, after coming up. And why not? There their dissultons are losses in New in no lack of technical ability, you the Otherts during 1943 have a most angenous system of bits been pathing in a tremewides ele and procus which spreads the work natural of 1942. fort to turn out a new crop of over hundreds of localities. Nor Office of War Information up- Japan has had a solid two years Japanese sireredt industry as be- graft laduatry based on the lessons tween 1,000 and 1,000 amplanes, she learned in 1942. At least helf Best estimates at present incline a doorn new Army and Navy fightmore, divided between the Japa. > Recognition-In the early days Jaconese Navy Air Faces (JNAF), of Japanese applaces was in a great state of configure. All fightavailable for release, but probably era were just Zerox and all bumbors Mitmibubus. As a matter of fact the erest free of Mitmibubu did turn out the medium bumbers h Jan Air Streagth Decarle heavy Betty, the light bomber Lety, and the torneds and days beenlers Third Fleet (over L000 during the Kete and Val. constituting more

more at longer range by General during the past few weeks, the become \$ 600 and 5 001 strength. one and 3,500. Compared with Philippines from Mereis; and Several New Models-There is sance plans. Discovery of the offi-

month of September, some 420 is two days in June, cast of the

Phylippenes) and several hundreds

> Adaption of Code Names -- Tile cod with effect in July, 1842, and Pearl Harbor, Washinston and hamburs sears femining. The of-

Zeke (Nurv Zero), Nate (Nakasons dehier). Note (Zeite with These nicleannes were published by the War Department in the

deable-tailed Nell could be rebest of the 1603-44 fighters, nicknamed in Chies where it was first spotted, still the code names are al-

than 90 percent of the bomber + New System New in Effect-A forms of that nerved. Some madels maries also, however, melasting to effect at the Trobuscul Air line telligency Center, Assessmin. Washington, D. C. Based on the Januarie types by using the names | Japanese Army-Navy mathod for mean; that the arresult had been commutant, ties in with the Jap

AVIATION NEWS . October 2, 1944

THE HIGH QUALITY Lubricant



FOR AIRCRAFT ENGINES

OF TODAY AND TOMORROW

The "know-how" of more than 30 years' experience in propositioning top quality inhibitority . . . large resources of selected \$99% pureling base crudes . . a progressive research laboratory and one of the secrit's largest oil refragrics . . . combined to produce this outerness lebrings Topocrow, commercial and privately owned similares will

MID-CONTINENT PETROLEUM CORPORATION TULSA, OKLAHOMA

PERSONNEL.

Acres Corp., a substitivity of Transsearces Corn. elected Timethy E. Celvin (photo) as president and a director C A. Berberts, founder and president has retired. Colvan

.......





Tenethy E. Colvin.

herts will continue as a director of Acres. named manager of mobile relations Wright Corp.'s propeller divi-sion at Coldwell, History

chief pilot in charge of suspection

dall, who has Linus before polyane American Export in 1962 and received his flight a graduate of Bostop School of Aeromates and also flow for United paned the drymon in 1942 having relations manager at the Server, William Maxfold (photo) is new

returned to Caldwell several meetle age to become accurant T. G. Nobbe, member of the plant engineering shell of Northwest Acclines, but been appointed NWA reinental and orn remon between Charge and on NWA buildings, grounds end

> farmer supermittedent of preschiname toba Birds will remain with the surface transferance de-



IO VEAD SPERRY PINrun bu Dr. H. H. Willia, oten-pres-

Value Alerret Cup's new Value wears, he is replaced Juley Petters, tyunsferred to the New York offices of Hill and Knewitse, Current pubby redshines occupation. W. F. Maramon has been appointed factory division. He has been montant so-

S. W. Antendle his taken over the newly greated post of director of solar of United



worston's neet-war sales experient Pen American Alevers has sppeinted S. J. Rell as foreum trade corrector and John E. Mahifeld as

assistant to the vice-president and well take over his new offices in Lot general traffic manager Ball forgreenfert and ameent treffic monimagager for Pan Agernoon-Green



avings in weight and cast are equally important to all pircraft operators wherever their planes are flawn





EASY TO -The new hydraulic motor, though of ample power, is small enough to

SIMPLIFIED * compact

fit in the palm of your hand. There are fewer parts, which means reduced maintenance costs and less man-bours. Also-IT'S APPROVED V ITS IN PRODUCTION !



tent of argument and recover wasterness where the electric

ATTACION NEWS . Orbiter 5, 1866 AVIATION NEWS . October 2, 1944

modification orater at Vandalia,

A CHANGE-OVER 'MUST".



clessing and preserving of production equipment shall be exceeded that interest of the control o

A Corremental contracts are terminated, militares of histories when field Consensational deprinately owned machinery, precision souls, and other production equipment will have be promptly proceeding extract will have be promptly proceeding extract which are histories are supported to the promptly are supported to the promptly are when the proceeding owner to the process of the p

Fat existine a spifereira. Perent Regions Compounds provide potentiaria, solf-conding lifes which are seen only wearpered but Mights resistant to chanicals said flower. Early applied with heach or apprey go, they remain sock, besiding over any scenarios and sheashons. Percon Response Compounds to long latting and way evidencement. In mose cases where residing electry exists, courty city-ping and earling in climinated become Traces Recognition of the compound processes and losses the tech so thereoughly their remains in greatly fulfillized.

Trace Keeping Compounds have provine highly successful in postering all types of parts and organization of weekler and sub-variety in overacts shipmone.
Tenne Unitediation Engineering Service and Trace Products for hierarch Engineering Service and Trace Products for hierarch and activity recording set a collable to the control of the





TEXACO

Rustproofing Products

HELP WIN THE WAR BY RETURNING EMPTY DRUMS PROMPTLY AVIATION NEWS . Order 2 1986 Airways in Lina, Peru. He trons-ferred to Pon American in August.



er's office at Transcontanental and Western Air, Inc., on contract su-E. G. Malbred in your associated dissoseen Archeer, Inc. He has been regood director for the pastern re-

sion of American with officer in New York Malbent's hendquarters will Hartwell Aviston Supply Co. sepoints Ted Book as cheel engineer Chanchall. Bryan, who was on and Sobert L. Math as sales describe commendate in the day forces outpeat engineer. Beck was sharf



Aircraft Aconseries Corp., replicaone Timothy E. Colyne who recarned. Pacific Engineering Corn. has no notated Des A. Beas, slop arpenntendent. Acebrone Wirken, assertant 1955 He has worked with The Glenn L. Mortin Co., the Great shop superintendent, and Charles Buth prophagas a succ Maj. R. R. Maye, designer of the night adore where has been appoint.

of arr technical advance to Steppens New research executive at Curtauservices between Great British and

Role, Gen. William W. Webb has been appointed assistant chief of stoff for treating in the Amey Aw at Gooden City, Kan. Forces, succeeding Maj Gen. Bob ert W. Harper, who has received an Regionald E. Ollimer, promotent of the Spercy Gyrencepe Co, and Hag-



TWA OFFICIAL MONOREDto of public enformation for American Air for the more president with a Turkey The Turkub president aent the teatch to commentarite has don't from Ankare to Coro to

Booseseit and Prene Monster corned by April Prys. YWA merica deveces engineer at Dallas for North wind frame. dent Arthur Kudner, Inc., in the . United Air Lines echeduled a deats of Sperry Corp., parent or-

William A. Cooke has been racred

icated as, telled "Why Women Fig." air travel N. W. Awy and Son in . Regar C. Florage, for more than a year the removal director for accounted director of advertising

handling the campaign Cal. Jersey, S. Olson have taken come Fred H. Beandy, Culcoel Class has been in openional of the AAF febt Aircraft War Production Council. West Coast, has piezed F. Therm been transferred to the Hectrowar and publisher of Partland, Ove

Dwight Boyced Eddy has been an peopled district tentile manager for



Kannas Celly. He was a huntrees of

Airplane Corp., Trenton, N. J. .
Describes: the round-the-world Air, Spc. has placed a 1,000-kmc

1,000-time ad to appear in New York newspapers, handlined, "The Sailor on Flath! 3" Copy tells how a storegage is filed with news of salerost . Unried Acr Lines, Charges, has

ALLEN H. GARDNER, President



"TREMENDOUS INCREASE IN NEW USES FOR MODERN, VERSATILE VIBRATOR POWER SUPPLIES"

E-L STANDARD ELECTRONIC TIMES MODEL 5-1372 applied vibrace Power Support thay be comprised to supply and applied view form. They are effected and long-lived and economy of



WITH AUTOMATIC SIGHT RECORDER

As furnified at the Footbild need content frond in the content bear of per comba-

This is SEXTANTS inc. Existing lendership seems from its development



more received promisings for any Journal stalisates since Thus collemented in name dis-

AND INSTRUMENT CORPORATION

SERGIVAN WITH BUILDING BANACA IN Y . Now York Office 521 Trave Assure New York IS N. W. THE STORY OF ARRIVE PROTOGRAPHS IN THE STORY OF PAINCRIED CAMERAS

AIRCRAFT PRODUCTION

Treasury Dept. Ruling Paves Way For Plane Industry Reconversion Decision that company-owned materials may be sold to U. S

for \$1 and losses entered for tax purposes permits immediate disposal of large quantities of excess inventories under warehousing plan.

reported to Metals Reserve has

American contract ruling have

Finance Corp -- W G K

Treasury Department that comtax purposes. The rainer was sought in mid-July (Assessment News, July 17) and was made on recommendation of the Sarahas FAlaminan-Only your met in

burrier of peoplety as much as kU. S. Materials Transferred-

Metals Reserve Co. RFC submid-

ser, has been much better than National Assister, Inc., Jacksonmost persons concerned expected. AVIATION NEWS . October 2, 1944

H P Nelson Leaves Henry P Nelson, Materials Co-

clove a Electry brave of absence to sense the War Production Board



gram and later joined the West Coast Arreruft Was Production Council before coming to the craft absences does not lend it. Program Entablished-Not only the responsibility for the flow of quality, weight and alloy. Some 29 ported has been sold. It is anticipated that olumnrum may be withruling was made specifically in That job done, he has been reconsummated individually by other companies operating on a fixed-

McDonnell Retools McDovaell Agreeaft is retooling

Division of General Motors and the Gleen L Martin Co These cornnames have specified the subpected to complete synday conracts with the Recognitivation puri pleted its contract for A-20 cowin

and manufacturing, as before, will McDonnell has started assembly operations for the leading edges,

Super Gases Studied For Post-War Use Expected to being shorter rake-

off, faster climb, speed and greater leading capacity. be expected to stap up superaft performance in aborter takeoffs.

Recently the Air Technical Service Correspond of Woods Field in the R-29 Superformer Posts for the AAF is 100/130 union. the Botton The extract reason o 166

tame rating during taleoff or comfeet fully sufcensite lendent sur-F Airline Tests Madeus Prosper of re-Tests conducted with \$7 octans show that a plane can corre a lead 3,500 pounds greater, on a rice ushich corns and clases a 1,000 rade first with the higher redo-controlled tenort plans, a The ATSC accountement indimanhenical signal control for radio raind that a chapte from accord-

EQUIPMENT LAB CHIEF

Communic Laboratory, AAF Art

Schutcal Severes Communication

ertenties of many then 600 Areas

ens. traverse democr. maintenance

produced and it is hoped that soon k Price Cut Expected - Post-over fore the war While peacetime render warrends, may coverate ouraviation resoline demand is exrects to rust the customer's de-

000 berrels a day, as agranat a present output of more than 900.-Another nest-was development 000, the drep in volume will be offset at least partly in figuring be a new pardstick for rating sircost by absorbusement of high cost cruft fuel to replace the present Necrose of the more emergence to octobe system. 188 octobe field to favor of more economical units theoretically as good as can be demands for a high octube fuel

tag it difficult to ignite by an own. love

Australian Output Tops 2,500 Mark Production around in 1999, on referencing bembers.

in 1939 with approach construction places ranger from trainers and Larent mark popert was the two-engine Beggiert bomber Strekreene Consessentily, when in July, 1941, if was an entirely Australian version, including two row 1.207hp Pratt & Whitney Wasp. engines built by the Common-

Secretary, bud mineral the 500 Electrocated in 1926-CAC was facturer, incorporating in 1906 Its results before war began. For

newed craft, the Roomergee fightcurryent two torpedoes. A plant is being exected in New South

Adel Deliveries hydraulies equament during the

Co., Burbank, by Ray Ellerwood, provident, Company's production AVIATION NEWS . Detalor 2, 1944

Through Piston Rings

McQUAY-NORRIS PISTON RINGS

PISTONS ... PINS ... HARDENED AND GROUND PARTS

McQuay-Norris is definitely air-minded. We are now sampliers of precision parts to the world's largest makers of aircraft motors. Our 34 years' experience in precision manufacture enables us to meet every demand of modern aviation for aturdy, unfailing precision ports. Your inquiries AIRCRAFT ENGINES Piston Biom Cil Seeling Blace

Sypercharper Blegs Codesenter Parts Machined Atomiroum Placers Country and Charle Stee Mechinod Magnesium Ports Cylinder Held Down Nuts

Herricand and Greated Posts PARTS FOR PRODUITED ACCEMBIN Mechined Mossesium Parts Pisten Rines

COURSECUT COR MAINTENANCE OF AIRCRAFT

Pluton Riego for Oxygen Pins for Osymen Commercial

Piston Rings for Air LANDING GEAR PARTS

Hechined Aluminum Fisters Platen Rines Hondered and Graund Parts

PRECISION WORKERS IN IRON, STEEL, ALUMINUM, BRONZE, MAGNESIUM



AVIATION NEWS . October 2, 1966

Production Begun On Long Range P-47

Operations on new Thunderfull expected to be at full schedule lee February,

Tread of military operations is ule for the new models produc-

Republic was building P-63

Army Board in June, 1990, outfreed the need of a faster, more powerful fighter. The experimental model of the P-97 was flown

Measurements - Thundarhold mencarements are: Weight, more 425 made newer-plant 2,893 hm. 11-cylinder Posts & Whitney Dog-50-calder machine runs, borsh load, 2,500 pounds The P-47 is a fariter-bomber, equally effective tudes or in dive-bombing and

Spale are reckure additional work- PLASTIC 'COPTER CARIN' thermo-retting reprin. The westeried the United States Rubber Co., recease of some thickness. It com- vate-

> Nutt Quits Wright Wright Accompations Corp. He world Wright in 1928, when he became voce-president shortly ofter the menter late in taxo of Carlus and Wright interests. Nuti

a Conflictionted War Projects-A and president of the Society of ordenius was research projects extensionly in Europe and Asia

De Havilland Shuffle Control of the HaveBond Auroraft. formed to a board companed of Robert A. Landlaw, J. Douglas Woods. thei Mesquito fundare extrust will and Bethane L. Smath as a result be stepped up accordingly at Cockof the resonation of J. Grant short

Wildest Schedules Cut: Avengers Up

decrease in PM-2 Wildow debters eral Motors, which makes those The monthly schedule of Weld-

who will be effected by the Wilds but Eastern Aircraft officials explants. The Wildest has had an unexpectedly law contact attribus

our mesatts, resents, costity to canadianCarSchedule

personne throughout 1945, it was represent at the plant recently by C. D. House Department of Maorners and Supply Meninter. The plant is produced Curtiss Hellcompany plans in addition to take on Part William for use in the Heli-

Mosquito Contract Mosquito fundages monthly, in

addition to the output of Asson V shart Montded Aircraft, Ltd., and tail assembly at plants threserbout the Dorsesser-



Link Tremers, Assetson Jestenis, and other predicts

THE LONG-GUADED SECRET OF SHIEDO, IMPORTANT has since 1886 of the Innerest Innertal News, was raciely sharroard July 7, 1966, At desk on that day, there suddenly appeared in the sky above Souther a plane, in creek recommon, burgled tons of demolition

Great Boung Super Focusson "hit Sasebo on the nese" after firing from Chinese bases, well over 1,000 redes every. Veneza and Desires was industries were also visuad, descriptively. All the American planes

This hissark: flight was a marvel of perpuration and problems of mivigation, are well rehearsed long before takeoff, in the Link Crew Naviouries Trainer on the ground.

Aviation Devices, Inc.

FINANCIAL

Equipment Commitments Focus Attention on Airline Financing

United, Eastern and American, with consumers for new Doorlas aircraft, will have little difficulty in meeting obligations. Recent consecuments accreed, at the maximum, should not ex-

American Arrignes, on the other hand, is clearly fixed with a called upon to take immediate de-Deeglas DC-4's and 20 DC-6's, is livery of the entire lot of 25 called on to meet an obligation of DC-4's and 39 DC-4's Such nurchose would run to approximately trae also to considering representative \$25,175,000. As of Day 31, 1945. months racked Sept. 22, 1966. cely in Jamesey of this year that should contribute about \$4,549,000

United raised about \$10,200,000. carmarked for expension, through \$53,000,000 Outlay - American, a new preferred stock must. To moreover, is faced with an outlay Export Auffner, sheeld this trans-As of Dec 31, 1945 the company schoo be approved by the Civil had not working careful of \$11. Accommanded Search Other constal 249,696. Bosed on the trend of curred by American if its expanproved by an additional \$5,750,000 makes any temptile progress. 22 1644

then \$30,000,000 carrently synth-Meanto or alsowhere will require company were auccessful in obcapital outlays not new known. ferencese peopletion, it is difficult be obtained through some equity \$25,000,000 in the near federa sele-DEcomment Drusts-dt is his to that the extensive one of equip-

Figurery-The couplings of 8 to 10 serious drain on that carrier's financial reserves. As of Dec. 31. of financing are well regarded. It add approximately \$1,750,990. The indicated cost for the new planes, noteworthy that existing planes. Sept. 25

instance, United Air Lines, so of Dec. 31, 1843, married 33 planes despectated valuation of \$1.422 .-954 or about \$43,000 average for

ra these pleases, having been re-

Financial Reports

The declaration is in line with tions warrant, according to Robert

for the six months anded June 30 of \$4,413,021, equal to \$2.19 a share compared with \$4,242,513 or \$2.11 a share for the 1945 period tarring new route mileagy applied

h Soler Manufacturing Care, for free recetlys ended May 31, last purchases. The merits of this true permats the ranging of capital when 805 or 66 cents a share. conduct at low one probably service & McDonnelli Airman Comm. do.

pearance with these large stale

As an interesting adelight at is

1943 the company reported net Airplane and Marine Instruments, Inc., for six months endus \$290,165, after \$400,000 provises. to \$1.29 cach on 225,150 shares. In the full year 1945, pet was \$145,-



Others Expected to Follow AA In Filing New Low Cargo Tariffs

Interest of traffic and freight men in proposed rate reductions

believed to pressage general move toward development of volune business through slashing of costs. By DANIEL S WENTZ II The intense study nighter leadly hated in Class C. the same com-

and stores men are elying to the results in 1,800 nound left moves schedule of air freezht tariffs filed unto the less cortly Class D Rates by American Arriance with the are likewise calculated to dis-Civil Aeronautics Bosed radicates courage shinesents less than 20 other damestic carriers are prepeareds. (See accompanying table). puring to follow American's lend. . Preinhables-A special tariff for line revolutes make American's schedule are wonderner what difsenage of the initiative a touchy

Fillet Cots Favored By CABapproved American's tariff, is alcharges hive been moved sharply The Justice Department's affi-

tufe also has been made plain to its warring last year which re- Frielay Trucks-Some observers salted in amendments of all REA-Cuts Under REA Bates-Americon Arrigers' proposed schoolule of tandle, effective Oct 15 of the Board approves, cats shorply under the REA rates, in some instances

stor in resistant freight handled. Critical for dissification laveler such stems as value, volume, denmly, pershability and fractility smong others It is carefully desarned to discourage short hand

speed and the latter more slowly.

Another question still to be an-

drew immediate fre from James A. Wooten, curpo truffic

> extremely on "absolutely ridered shapment of its kind made to rate Sele in Concernts was to be at 29 cents per 10-ounce

Western branded the 656 cent

6.55 Rate Attacked

teen, of which test shipmants have been made over TWA swered is the problem of postup sirport and between apport of that, following American, other domestic curriers will join in a

American's feet is not large whereby the trucks of the WKA

feet when larger and more mad-Opinion in general recent to be

Rain per Will stepment Action Storm

Estrary IVI & stierress

AVIATION NEWS . Orlober 2 1866

Model Feeder Airliner Data Compiled For Proposed Carriers

FAA Technical Committee specifies 18-22 place all meral, biob wing, rwin expine monoplane with additional space for onof career equipmed for instrument and night figure

plane which the newly formed of a 2,500-foot strue taxous about

space for a ton of earne, orangeed for instrument and might flying. May Use Pickep Equipmentpublic of landing or takeoff within 1 899 ft when fully loaded Croferange 560 miles also are received Time Saviar Features—Since the

locking foors, for small mail and

Churchan Oliver L. Parks raid. at St. Louis, where the group held. mand for 460 for demonfic one and market for 4 000

(500 to 1,000 to a where stability b Short Rose Libety - Percetacope with obstacles close to small surports. With the 1,000-doot limit

mittee has in mored the possibility

Specifications for a feeder line of setting its step down at one and the runway. The idea is that 2 office than resist on larger air-

> Cargo espenty of 3 900 yeards chapte and stressed for a maximum pickup load of 300 pounds ceed 100 pounds. Design calls for

Air Bills Held Up Considerable profess loss.

group by the National Acre-American flue like bill awaits rottee of the Senate Commerce

perity is on the basis of 200 poursts for his own baggage, charlesting least equal to the DC-3, air condition, heating and ecologic indevi-Members of the committee are

H. Scrugge of Ryan School of Accusation Phillip C. Warner. Parks Air College, Halary R. Bax-

NAL to Use EAL Airway to Florida

available on line's own conservise rund by Eastern Airlines' AM 5 despite the fact that this courte is longer than the construe route National eventually will use Airway fecilities are not available the line may fly it contact under

chase \$5,000,000 to new arroraft b Vin Savannah and Charleston-Savonsah, Ga. and Charleston. area are lifted. For! steps will be made at Beleuch, N. C., and Wash-

National's operations at New York will be conducted from haroffice space in the Airlines Terminal Butder

additional massenger constorts.

Lea, Bulwinkle Plan Bland Bill Fight

will be frught to the last ditch in Commerce Committee and Rep. The bill was introduced by Rep. toborder Olis Bland (D., Va.), charman of the House Countities ics, as an amendment to the Mer-

thank Marries Act of 1908, and Mariofiction Operation - The reven

antil the Bland bill west to Mer-

ALDA to Meet October 3 Air Line Dispatchers Association (AFL) come its two-day arresal convention at Chicago, Oct. 3, with ten busicess President Joe H Our expects delegates from 35

AVIATION NEWS . Descri 2, 1944



... Screen of AM Eliticos

"AN" Pipe and Tube Fittings Leading aircraft manufacturers have found that Grinnell's experience and production facilities assure. on refudule delivery of anatographed fedges. Let us know your populeenegts. We may be able to sup-

nto the firstens was need from each. Write or wise Grigaell Company, Inc. Everying Offices Providence 1 B 1



TWA Exhibit Shows Senate Group Results of Regulated Competition

Analysis placed in unpublished records of Commerce Commissee's aviation subcommissee cites public benefits derived from application of system to sirlines.

What regulated competition PAA-Penners system DC-3 decatalog rehearerables by Trans. from such sources as the Cred part Association, the Accomplical Chamber of Commerce, the Official Guide of the Airways, the

merce Department, Moody's lamake and on 21 ambibits delicant Bedsellen in passenger fares. per mile declined progressavely from 12 cents in 1626 to 5 cents

b Reductions in oir mail rates. Dornestie air mail payments declined in only per pound mile from 4 01 is 1933 to 41 in 1943 Discress in schedule frequency. 43.512 av 22.5 necores lines combined flow 64 million passenger miles per passenger killed ar seriously injured in 1927. seviand 3.5. Netherlands 2.3. Italy

b Dillication of planes, Pan Amerand the second services of the 600 plane miles for an average of 144 fee rules per plane Respective figures for all demestic air-Steen wore 159 planes 140,001,000 moles for an appropriat of 300 000 b Comparison of streets utilies. tion. In 1941, average durity smile. solion per protobeces for the the domerfic airlines, 6.35 Here

A.Passenger fare comparison. You ter is \$20. Prom New York to Harribare on TWA, 196 miles. the face is \$10.00. From Manro to Barranguila on PAA, 1123

PAA passenger fare history, nancoverfflies very correction contas Prove Minera to Manuera. Port nu Prince, San Jaan, Antures. Peri of Socie. Perameribo. Beiere, Natal, Rio de Janeiro and From Brewssville to Mexico City. bal there was a 19 percent reducper male declaring from 3956 in

900 to \$285 in 1841. Property miles flown by In-In 1937, all United States agricues Mo 1979 U S decentic cirilery on the rearest rival in Europe was Inneral Airways with 142 million ton-reales. In the ment year, all U S sirtings flow 857 million plane-miles whereas leadure

was 338 planes, whereas total fleet of leading European sirlings was sty of handling seems of the ave-581 planes These frances consist. tem's business by sir ered with those given in the other has been the overtice. For a further exemple, the exhibits show 353 Photograph Glanc-coides ner plane whereas the nearest and

preach in Europe was made by Imperial Airways with 142,006 Dully average alteraft getterates. Command under May, Oep Harabi under war department contract. if also was pointed out that on the The exhibits show that PAA with research



Dustriances of being the first do-Consumed to classed by Transconwae-president, One F Bruns, w partured convertibities Cost Hugh Merndon on the 5,999th flight Merudon's C-51 ornered in Wookmotors from Great Bridge units of

Marganbar completion of the 5,0000 ited its surcraft 3450 bours daily is July, 1943. The TWA figure for

Processor with the Mark Street, make 7 47 and 9 50 remortanity Santa Fe Airline Seen proved surface operations in the post-war period, Fred G. Gerley. sold shappers and traffic men at Port Worth. Directors of his comh Total II. S. alvereft first in 1999 pany. Gurley said, are studying regults of a survey on the nonstel-

> C. R. Smith Promoted Brie Gen Cwree II South has been presented to make general was confirmed recently by the Senate. Former president of Ameriout Arlines, he has been deputy

P.122 AVIATION NEWS AS POST STREET

Delra Asks Links ToMiami KansasCity

extensions of its present system between Mason, Pla., and Kansas City, Ma, Solding Barracestors. Man. Mercubia Town, and Second. field Mr. on a lar of AMIA and

connective Muces with Sovernah Ship Querator Files - A large stemphic operator, the American and/or Johannesburg, Union of South Africa, Intermediate stops man's Lake, Liberia Az alternate coutest was Trended Batherst. Recustorial Africa, also is neared Communy olana to operate a com-Other applications include:

Worker Alexen, Ababas made, for a costs between Anchorage and South via O and Windstein M. C. as intermedical prints

DESIGN ENGINEER WANTER

Young, progressive engineer with design and draffing ability necessary, Interest and knowledge in light aircreft. structures, power plants or hydraulics and electronics dosirable. Apply

SAN FRANCISCO & CALIF AVIATION NEWS . October 2, 1944

PCA Adds\$10 000 000 To Douglas Backlog Pennsylvania-Central Agringer I One of the major realmost that has

\$60,000,000 contracts since the maddie of last month for DC-4's and

the big planes-43 DC-4's and the number would reach its, but it was expected to do so through an additional order from United for ▶ Contract Signed—PCA's rowtract was signed at Donald Douglas dest, produced that the DC-4's over routes such as PCA flee among nearly 50 cities in the in-

other depertments not collected ondiges may not come down sensor claded are such those as traffic, ad hThe Civil Accounting Smooth re-American dispor at Nipe Bay, Cubs, probably will be ressed that Astraes plane this the Minimpo





As specialists as been broader 45 and superiors as 10

PADIATORS

AA to Expand 2-Way Reservation System

Trial of a plan to save reservatran-making ture for rossed trapis obtained. The method at said to save about two hours of charking with the destination point

> "Sell and Record" Systematics. on opent at one point ariling a at the time of sale. The destina-

of state, after which all other potats are notified to stop selling Under the until system neversonly by that city, time is required

numerawe can be notified by has



WANTED Tool designer with tool plays

zing ability. Capable of setting up a Production Engineering section of Small Aircraft Plant Industra manufacturies methods are cedures and routing systems 25 to 35 years of oge, Apply





estamates that the Johns and equipment shop at Pan American's La Guer-

rant it, as additional plones cons-

Air Reseas International, Inc. has covered an office at Los Angeles

to handle, among other thangs, cur-

New York, Mass: and New Oc-

Open L. A. Office

out on routes between New York Flight Strip Bill Senate revisions on the \$3,555.laded a provision to require the cution of all fight stress before will offer it as an amendment salar Borre artice or taken on the

cations approved by the Civil

WAL Earnings Off Western Air Lines reports not

TCA Traffic Up each on 489,554 shares outstanding For the 1943 period, not profit after texes was \$71,765 Western's run clesc to 170,000, communed with 21,000 in 1839, its first year of daily transcontenental opera-

Data NearCompletion On Case Bill Study

count from Stary Department CAR and AYA by riese revers it

Foreign Commerce Committee conthe State Department, the Cool. Favored With Limitations-CAR

tal United States the procedure set

Prempt Action United-'It will be extremely unpertant that enticipate what services will be rither by museum of temperary

by CAB. One would negot the

Honey of also president of a suvappears that mail compensation to



mon. and T/Set John P. Hirsch. chief clerk, also pe leave from

Canadian Post-War Air Board Named There-ease group set up to es-

A three-man are transport board ion pelicy, regulate the recently and well pleased expension of The new Air Transport Board is headed by B. A. C. Henry Mrs.

Vaches, Mastreal, is a member FAII Howe Men-C D Howe, Mamittors and Supply Marsher, made the announcements. All are Howe men. Henry, until recently, was 1837, which Howe then headed Communications, Ltd., and a mem-Canadam Panife Barlway, shief of bureau of eceneeses of Canadam Ferrer excepted the Reyal Canadun Air Force in 1909 when Canada word to war. He is an en-

of Canada's syleron awmen, startone often the First World War with Montreal. He remed the Ostanic engener wired Western Canada uetts in Canadian Pacific Ar Lines State the formation of



tast severintendent of the eastern

Coast Delivery Time Orchid plants, frozen freg legs Caronliner spends magnifer from and Cubun land tobacco are three Air Long through Definery Pr.

HAL Core Neusureb's

SALES ENGINEER

the way to the West Coast. Als though overseas editions have WANTED BY traveled by any for some time, the new use of United's regularly schoolaled cargo flights muchs Southern Colifornia links aircraft firm. A good en-Proted at Darton Dive. the gineer with executive chilcomes are sent by train and frunk ity desirable. Should be to Salt Lake City. Itah, where a able to formulate a market Citto First shremont of \$5,500 research plan and organreview was completed last month. ze a sales program for I All-Carge Service Used-Source requirements problem built ship light aircraft and aircraft products. 25 to 35 years of one

All Bart Street See Francisco 4 Calif.



So. American Route Cases Presented Cryst Accessation Board's Latin

the key to a new, blob stand. Asserted hearing moved into a and of officiency in deceion more complex slape late last week end procession. Mrs. con recos applebations for reutes into see why Kalife metericle and South America peoper boom to precesses are the number of the proceeding, which countered proposed services in Mexico. Out the full pit story from the course fails become framese Court of South America was fu-

Witnesses for various steamship. Soul 40th Stylins Angelos 1, Culti of stranging passenger teathers the shrough are not permitted to h Cohin Class-G. T. Buker, No.



Patterson loins C-W Buell A. Patterson, former direc-

public relations department, airare that he will be assured onecially to do nost, war replacity on the CW-28 conserved version of

Disports in Wildowston indicate that recey of the rank and file of hice to one that organization contrused after the war, perhaps as a

rend thed "change statement" spric the fact that top ATC afficess. ranks want to been their present that his company's plans included AVIATION NEWS . Ortober 5, 1944 ment maps July 1, 1940, has been specified Density Second Austripropositional powers acraigs. The Several Augustant PMC in Smith Duties Mr Martin's duties in essection with signal will be somewhat breadened through his



occur routes, granging data on mytoad and other operat-A a week contender for a aliere in the peet-war trans-Here are some of the facts First until cost of the Mary

much as 25 percent upward or for loan dutance convitors. Up to 135 passengers may be Profest (with an 80 ser-

pent load factor) could brong trip of 2,400 miles, such as the Posific Court Heaves run Decreting cost for ruch a round trup or estamated at \$10,-

soptes out that the Mera will enter the post-war market as pedares are being revised to speed that operation, making No. B. Karding et Konsteine, Almity an agailtathun of Elife Ab Tomatori and Leathing Act Service by oddfilmed nea-vice in authentice behave, Clocker 50: m 4d. Frequent from hop. 32 Saw H. Emergy date for the Provise can-helics. Executer. William F. Ond. (Soften 84) et al. Seedical or Vaco 64 place data in part median Absence 100 benesion: Van

Eve. 4. Toropilles benefug date for application for Society person in the New England nation. (Chapter, 152 of Mil.) One, 12 Toropilles benefug Side, Morth Fuelfi-Day, 50 Cabbids due to the Fuelle proceeds Feb. 1, 2001. Tentative bearing date, Acc.

• On prelifer of Westerman Stemanble Deep the Stock has offenseed subjections of Asia-vian Nurseaules, F. S. Agelow, E. Kerber, Steman South Republic Liver, and the Per-ceptually were manufacted in the Sadder American Suprassing Steman Sections was Defect in presents, as then profited the Sadder Sadder of the Sadder American Stemanble Section Sections. mail policy. Hailway mild is a Application of Florida Motor acres very big torm withteres from the Parties on was winted to took and consciously and in-bone distincted at applicable report. I make he had not distinct at the 15th dainet, which is the Cross how personnel the Starth to recently the decision or the Starth Streething case . She Streething the Control of the Starth Streething to the Starth St CAR SCHEDULE

On h Endange of subdate in the Frette beller Exemine William - on between Story Clos. S. Cab.

mein application Assirais

Ser, I. Dele les chalungs et cathers in
libert altanist mes (fonder lits et al.)

On, I. Reverige en the spollection of ExAssiration-desse Assiration of Exancies of the spollection of the
Assiration-desse Assiration for its assistant
ment to be profilerate substitute and
points annies between Officiale and Ont 3: Describes to new application and attentions to these should find for our-describes to those wheat find for our-



DARNELL

LONG BLACH 4 CAUPORNIA SO WALKER ST. HEW YORK 13 N Je w GUNTON CHICAGO 6" IL

PO Advances Marrin





CAR ACTION The lived has resolved the suspensive or for the poster of Environ AM 15 to the factor of Environ AM 15 to

U. S. Progress in IP

The Asset As Facco' appropriate accompany was disconnector and anadequate. That is probably Are Freeze making it impossible to cite specifically our per accomplishments. Too, the statement must have both mice of the Atlantic before it was perced The British pronected in this field. We obtained our nest set designs and coassiment from England. The

But it is time sumeone in the United States sneaks up for our own technical officers of the Army Air Percus and the appropri industry, and recents what many experts on jet propilisan here believe. That is, fluctuar with amends of \$50 miles as bour. Does that

furnish comfort to the enemy? The Bell Arrecovet may nover enter combat. The British may seel out a force of JP graft trie the fight before we do But as Aviation News indicated Sept. 11 the Averyment strendy has been expelled in speed

by at least one pressy U. S. plane built by another And the AAP and must of the U.S. agreeaft industry age resisting development and production work. Another year should see this equatry for in the lead in seen yet. The post-way implications, both commercally and militarily, are tremendeen Bet why not

from year description of our accomulationers. to avoid risking displeasure of one of our allies, who has as reach to man from our work as we do?

Yardstick Airparks Needed A THE AMOUNTAINAL CRAMMER OF COMMERCE Percommittee to referred the nation in arrall herdise faedition, it becomes more evident that meether and N. H., to Corrolla, N. C. Everything out of this line

enemely to consultage magazineshibes of the industry of the full possibilities of these air parks, flight steps

Needed first are full acute, working models built by expects where ignariations in expect lightims, paying, drammer, landscaping, passenger and pilot comfort note account starner and service can be tried out unday actual conditions New equipment of all types could dederon tests. Operations costs could be studied. A few rach bases—even one—possibly in the Washinstee area resultly available to members of Construst and povernment efficials, might well be established

Such airporks, bush in the most economical but modern style, probably would become Meccas for state and city officeals throughout the country, a spur to a spontaneous, national pougram. With a few working, "ynedstick surparks" the Personal Average Countil would be practicing what it precedes, and

East Coast Corridors Remain

PENS LIBRARY OF COMMISS brought out the process from their wintime higher place last week for pulhe display after receiving ample assurance from milttury officials that the charges were size that Washingles would be bombed

Yet other military officers refused to make more of land from East Cont private Sying wartise onstrictions. They left another than storp still included

The complicated and retirer abound system of corrainer between surports for provide flyers continued in effect in the thin coastal strip will left under militure control by the letest ruling of the reterdepartmental Air Traffic Control Board, which could do better if the mixtary could be permaded to reliequals token authority over the East Coast area. The reling changing the limits of the restricted aunt along the count or most places, and running from Newport. more drawings of various V, X or T shaped facilities will was under warning restrictions. The reason no survivaged on arrel photographs will not be one in Washington could not

CHICAGO OUTHERN

... proves superiority of General's Tail Wheel Tire-Tube-Wheel Combination!

Quoting: R. L. ANDERSON, Superintendent of Engineering, CHICAGO and SOUTHERN AIR LINES

"A series of tests have progressed to a point where Chicago and Southern has been able to determine that the General Tire and Wheel combination is superior to the installation formerly used on the company's 21-passenger Douglas DC-3 transports."



The General Tail Wissel Tim-Take Wheel combination has constraintly powed as seperiority in lebonitory onto and in sexual service by leading users. In one purloage,

THE GENERAL TIRE & RUBBER CO. + AKRON, OHIO



all set for

POWERFUL TNT, for which endless rows of bomb cases are waiting, looks and pours in a thick, yellow stream...a deadly, 1000-lb. "yolk" for each of these bomber "eggs".

Machining operations in the manufacture of munitions range from rough hogging of steel to delicate jobs of watchmaker precision, as on fuses. In all of them, Texaco Cutting and Soluble Oils assure faster machining, longer rool life.

tool life.

Texaco Cutting Oils, for instance, permit higher speeds and feeds, with

improved surface finish. They lubricate the tools, and by carrying away the heat prevent chip welding; thus lengthening tool life, assuring greater output. Texaco lubricants have proved so

effective in service they are definitely preferred in many fields, a few of which are listed at the right.

The services of a Texaco Engineer, specializing in cutting coolants, are available to you through more than 2300 Texaco distributing points in the 48 States. The Texas Company, 135 East 42nd Street, New York 17, N, Y.

THEY PREFER TEXACO

★ More buses, more bus lines and more busmiles are lubricated with Texaco than with any other brand.
★ More stationary Diesel horsepower in the

U. S. is lubricated with Texaco than with any other brand.

* More Diesel horsepower on streamlined trains in the U. S. is lubricated with Texaco than with

in the U.S. is lubricated with Texaco than with all other brands combined. * More lacomatives and railroad cars in the

U. S. are lubricoted with Teaxco than with any other brand.

* More revenue airline miles in the U. S. are

* More revenue airline miles in the U. S. are flown with Texaco than with any other brand.



TEXACO CUTTING, SOLUBLE AND HYDRAULIC OILS FOR FASTER